

David L Woodruff

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,978
citations

26
h-index

54
g-index

61
ext. papers

3,425
ext. citations

2.6
avg, IF

5.17
L-index

#	Paper	IF	Citations
60	Parametric Stochastic Programming with One Chance Constraint: Gaining Insights from Response Space Analysis. <i>Profiles in Operations Research</i> , 2021 , 99-124	1	
59	Mape_Maker: A Scenario Creator. <i>Energy Systems</i> , 2020 , 1	1.7	
58	Parmest: Parameter Estimation Via Pyomo. <i>Computer Aided Chemical Engineering</i> , 2019 , 41-46	0.6	1
57	Constructing probabilistic scenarios for wide-area solar power generation. <i>Solar Energy</i> , 2018 , 160, 153-167	1.67	19
56	Software for Creating Stochastic Scenarios for Optimization from Data. <i>Computer Aided Chemical Engineering</i> , 2018 , 1531-1536	0.6	
55	A stochastic programming approach to solve a coordinated capacitated stochastic dynamic demand lot-sizing problem with emergency supplies. <i>International Journal of Logistics Systems and Management</i> , 2018 , 29, 173	0.7	1
54	2018 ,		4
53	BBPH: Using progressive hedging within branch and bound to solve multi-stage stochastic mixed integer programs. <i>Operations Research Letters</i> , 2017 , 45, 34-39	1	10
52	Stochastic Programming for Global Supply Chain Planning Under Uncertainty: An Outline. <i>Lecture Notes in Computer Science</i> , 2017 , 437-451	0.9	
51	Generating short-term probabilistic wind power scenarios via nonparametric forecast error density estimators. <i>Wind Energy</i> , 2017 , 20, 1911-1925	3.4	25
50	Preface: logistics, optimization and transportation in memory of the late Arne Løkketangen. <i>Annals of Operations Research</i> , 2017 , 253, 709-711	3.2	2
49	Stochastic programming for flexible global supply chain planning. <i>Flexible Services and Manufacturing Journal</i> , 2017 , 29, 601-633	1.8	8
48	Obtaining lower bounds from the progressive hedging algorithm for stochastic mixed-integer programs. <i>Mathematical Programming</i> , 2016 , 157, 47-67	2.1	90
47	Toward scalable stochastic unit commitment. <i>Energy Systems</i> , 2015 , 6, 417-438	1.7	40
46	Multi-period forecasting and scenario generation with limited data. <i>Computational Management Science</i> , 2015 , 12, 267-295	1	18
45	Toward scalable stochastic unit commitment. Part 1: load scenario generation. <i>Energy Systems</i> , 2015 , 6, 309-329	1.7	26
44	Generating Stochastic Ellipsoidal Forest and Wildland Fire Scar Scenarios for Strategic Forest Management Planning under Uncertainty. <i>Forest Science</i> , 2015 , 61, 494-508	1.4	0

43	Integration of progressive hedging and dual decomposition in stochastic integer programs. <i>Operations Research Letters</i> , 2015 , 43, 311-316	1	30
42	Chance and service level constraints for stochastic generation expansion planning. <i>NETNOMICS: Economic Research and Electronic Networking</i> , 2015 , 16, 169-191	2.3	1
41	Multi-stage scenario generation by the combined moment matching and scenario reduction method. <i>Operations Research Letters</i> , 2014 , 42, 374-377	1	17
40	Stochastic optimization models in forest planning: a progressive hedging solution approach. <i>Annals of Operations Research</i> , 2014 , 232, 259	3.2	10
39	Toward scalable, parallel progressive hedging for stochastic unit commitment 2013 ,		53
38	A new approximation method for generating day-ahead load scenarios 2013 ,		4
37	PySP: modeling and solving stochastic programs in Python. <i>Mathematical Programming Computation</i> , 2012 , 4, 109-149	7.8	65
36	Pyomo [Optimization Modeling in Python. <i>Springer Optimization and Its Applications</i> , 2012 ,	0.4	110
35	A Progressive Hedging Approach for Parameter Estimation via Stochastic Nonlinear Programming. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 1507-1511	0.6	1
34	Progressive hedging innovations for a class of stochastic mixed-integer resource allocation problems. <i>Computational Management Science</i> , 2011 , 8, 355-370	1	163
33	Pyomo: modeling and solving mathematical programs in Python. <i>Mathematical Programming Computation</i> , 2011 , 3, 219-260	7.8	371
32	Modeling and solving a large-scale generation expansion planning problem under uncertainty. <i>Energy Systems</i> , 2011 , 2, 209-242	1.7	71
31	Discrete Lot-Sizing and Scheduling with Sequence-Dependent Setup Times and Costs Including Deterioration and Perishability Constraints 2011 ,		8
30	Scalable Heuristics for a Class of Chance-Constrained Stochastic Programs. <i>INFORMS Journal on Computing</i> , 2010 , 22, 543-554	2.4	12
29	SEQUENCING AND BATCHING FOR TWO CLASSES OF JOBS WITH DEADLINES AND SETUP TIMES. <i>Production and Operations Management</i> , 2009 , 1, 87-102	3.6	35
28	How to select a small set of diverse solutions to mixed integer programming problems. <i>Operations Research Letters</i> , 2009 , 37, 255-260	1	16
27	Progressive Hedging Innovations for a Class of Stochastic Resource Allocation Problems. <i>SSRN Electronic Journal</i> , 2008 ,	1	4
26	Experiments concerning sequential versus simultaneous maximization of objective function and distance. <i>Journal of Heuristics</i> , 2008 , 14, 613-625	1.9	17

25	Production planning with load dependent lead times: an update of research. <i>Annals of Operations Research</i> , 2007 , 153, 297-345	3.2	66
24	Heuristic Search for 2D NMR Alignment to Support Metabolite Identification. <i>Lecture Notes in Computer Science</i> , 2007 , 447-458	0.9	
23	Automated screening for metabolites in complex mixtures using 2D COSY NMR spectroscopy. <i>Metabolomics</i> , 2006 , 2, 221-233	4.7	42
22	A distance function to support optimized selection decisions. <i>Decision Support Systems</i> , 2005 , 39, 345-354	4.6	12
21	A decomposition algorithm applied to planning the interdiction of stochastic networks. <i>Naval Research Logistics</i> , 2005 , 52, 321-328	1.5	33
20	Production planning with load dependent lead times. <i>4or</i> , 2005 , 3, 257-302	1.4	53
19	Heuristics for Multi-Stage Interdiction of Stochastic Networks. <i>Journal of Heuristics</i> , 2005 , 11, 483-500	1.9	39
18	Load Dependent Lead Times [From Empirical Evidence to Mathematical Modeling 2005 , 539-554		4
17	Beam search for peak alignment of NMR signals. <i>Analytica Chimica Acta</i> , 2004 , 513, 413-416	6.6	71
16	Experiments with, and on, algorithms for maximum likelihood clustering. <i>Computational Statistics and Data Analysis</i> , 2004 , 47, 237-253	1.6	9
15	Interdicting Stochastic Networks with Binary Interdiction Effort 2003 , 69-84		17
14	Progressive hedging as a meta-heuristic applied to stochastic lot-sizing. <i>European Journal of Operational Research</i> , 2001 , 132, 116-122	5.6	48
13	Cluster Analysis for Large Datasets: An Effective Algorithm for Maximizing the Mixture Likelihood. <i>Journal of Computational and Graphical Statistics</i> , 2000 , 9, 672-688	1.4	6
12	Cluster Analysis for Large Datasets: An Effective Algorithm for Maximizing the Mixture Likelihood. <i>Journal of Computational and Graphical Statistics</i> , 2000 , 9, 672	1.4	10
11	Selection of an optimal subset of sizes. <i>International Journal of Production Research</i> , 1999 , 37, 3697-3710	7.8	8
10	A class of stochastic programs with decision dependent random elements. <i>Annals of Operations Research</i> , 1998 , 82, 83-106	3.2	88
9	Progressive hedging and tabu search applied to mixed integer (0,1) multistage stochastic programming. <i>Journal of Heuristics</i> , 1996 , 2, 111	1.9	93
8	Identification of Outliers in Multivariate Data. <i>Journal of the American Statistical Association</i> , 1996 , 91, 1047-1061	2.8	200

7	Ghost Image Processing for Minimum Covariance Determinants. <i>ORSA Journal on Computing</i> , 1995 , 7, 468-473		5
6	Computable Robust Estimation of Multivariate Location and Shape in High Dimension Using Compound Estimators. <i>Journal of the American Statistical Association</i> , 1994 , 89, 888-896	2.8	80
5	Heuristic Search Algorithms for the Minimum Volume Ellipsoid. <i>Journal of Computational and Graphical Statistics</i> , 1993 , 2, 69-95	1.4	34
4	Hashing vectors for tabu search. <i>Annals of Operations Research</i> , 1993 , 41, 123-137	3.2	73
3	CONWIP: a pull alternative to kanban. <i>International Journal of Production Research</i> , 1990 , 28, 879-894	7.8	652
2	Computable Robust Estimation of Multivariate Location and Shape in High Dimension Using Compound Estimators		39
1	Identification of Outliers in Multivariate Data		64